PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

NEW APPLICATION TRANSMITTAL Under 37 CFR § 1.53(b)

Transmitted herewith for filing is the patent application of

Inventor(s):

Mark Vandlik and Tom Westberg

WARNING: 37 C.F.R. § 1.41(a)(1) points out:

(a) A patent is applied for in the name or names of the actual inventor or inventors.

(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(c). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1. 53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors.

For (title):

Blood Processing Systems with Fluid Flow Cassette with a Pressure Actuated Pump chamber and In-Line Air Trap

1.	This ne	of Application ew application is for a(n) Original (nonprovisional) Design Plant
NOTE:	WHERE	the following 3 items apply then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE DF THIS CONTINUATION APPLICATION.
	[]	Divisional. Continuation. Continuation-in-part (C-I-P).
2.	Benefi [x]	t of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121) The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

CERTIFICATION UNDER 37 C.F.R. 1.10*

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date 20 April 2004, in an envelope as 'Express Mail Post Office to Addressee' mailing Label Number 8 V 318693809 05 , addressed as follows: Mail Stop Patent Application, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450

Judith Dunaway	
(type or print name of person mailing paper)	
July Dunaway	
Signature of person mailing paper	

(Application Transmittal - page 1 of 5)

	133 Pages of specification O1 Pages of claims O1 Abstract 41 Sheets of drawing [x] formal [] informal
В.	Other documents enclosed:
Ad	ditional papers enclosed
[]	Preliminary Amendment Information Disclosure Statement (37 C.F.R. 1.98) Form PTO-1449 (PTO/SB/08A and 08B) Citations Declaration of Biological Deposit Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence. Authorization of Attorney(s) to Accept and Follow Instructions from Representative Special Comments Other
De	claration or oath
[]	Enclosed [] newly executed [] copy from parent application identified above
Ex	ecuted by (check all applicable boxes) [] inventor(s). [] legal representative of inventor(s). [] joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached. [] This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See Item 13 below for fee.
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Papers Enclosed

3.

7.	Langua [x] []	a ge English Non-En []	glish		ation includes :	a statemer	nt that the trans	lation is accurate. 37
8.	Assign [×]		is attached ACCOMI attached will follow	ed. A sepa PANYING N v.	on to <u>Baxte</u> rate [] COVE NEW PATENT nt application in	ER SHEET APPLICAT	FOR ASSIGNN TON or [] FOF	MENT (DOCUMENT) RM PTO 1595 is also
9.	CERTII	FIED CO	PY					
	Certifie	d copy(ie	es) of app	lication(s)				
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NOTE:	[] [] The foreig	is (are) will follo gn applicat	ion forming	the basis for th	e clam for priority n	nust be referre	ed to in the oath or d	eclaration. 37 CFR 1.55(a,
				(CLAIMS AS FIL	.ED		
				Number Filed	Number Included in Basic Fee	Number Extra	Rate	Basic Fee 37 CFR 1.16(a) \$770.00
Total C	Claims 37 C	CFR 1.16(c	:)	1	-20 =	(19)	x \$ 18.00	\$0
Independent Claims (37 CFR 1.16(b)			1	-3 =	(2)	x \$ 86.00	\$0	
Multiple Dependent claim(s) if any (37 CFR 1.16(d))				0			\$290.00	\$0
FILING FEE CALCULATION								\$770
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Filing Fee Calculation

770.00

	B.	[]	Design application (\$340.00 - 37 CFR 1.16(f)) Filing Fee Calculation	
	C	[]	Plant application (\$530.00 - 37 CFR 1.16(g)) Filing Fee Calculation	
11.	Small	Entity S The appendity s []	Statement oplicant is a Small Entity as defined by 37 CFR 1. status. Small Entity Filing Fee:	
12.	Fee P		Being Made at This Time nclosed No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. 1	. 16(e) can be paid subsequently.)
	[x]	Encloss [x] [] []		770.00
13.	Meth [×] []	Check Chard	k in the amount of \$770.00 ge Account No in the amount of blicate of this transmittal is attached.	
14.	Autho [×]	The C	n to Charge Additional Fees Commissioner is hereby authorized to charge the folluring the entire pendency of this application to Ac 37 C.F.R. 1.16(a), (f) or (g) (filing fees) 37 C.F.R. 1.16(b), (c) and (d) (presentation of 6 37 C.F.R. 1.16(e) (surcharge for filing the basic flater than the filing date of the application) 37 C.F.R. §§ 1.17(a)(I-5) (extension fees pursu 37 C.F.R. 1.17 (application processing fees) 37 C.F.R. 1.18 (issue fee at or before mailing of C.F.R. 1.311(b))	extra claims) iling fee and/or declaration on a date lant to § 1.136(a)).

15.	instru	ctions a	s to Overpayment					
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Tel. N	o.: (262)	783 - 13	300	RYAN KROMHOLZ & MANION, S.C.				
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ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

NOTE: "In order for an application to claim the benefit of a prior filed copending national application, the prior application must name as an inventor at least one inventor named in the later filed application and disclose the named inventor's invention claimed in at least one claim of the later filed application in the manner provided by the first paragraph of 35 U.S.C. 112." 37 CFR 1.78(a).

NOTE: "IN ADDITION THE PRIOR APPLICATION MUST BE (1) COMPLETE AS SET FORTH IN S 1.51, OR (2) ENTITLED TO A FILING DATE AS SET FORTH IN S 1.53(B) AND INCLUDE THE BASIC FILING FEE SET FORTH IN S 1.16; OR (3) ENTITLED TO A FILING DATE AS SET FORTH IN S 1.53(B) AND HAVE PAID THEREIN THE PROCESSING AND RETENTION FEE SET FORTH IN S 1.21(L) WITHIN THE TIME PERIOD SET FORTH IN S 1.53(D)."37 CFR 1.78(A).

16. Relate Back-35 U.S.C. 120

NOTE: "ANY APPLICATION CLAIMING THE BENEFIT OF A PRIOR FILED COPENDING NATIONAL OR INTERNATIONAL APPLICATION MUST CONTAIN OR BE AMENDED TO CONTAIN IN THE FIRST SENTENCE OF THE SPECIFICATION FOLLOWING THE TITLE A REFERENCE TO SUCH PRIOR APPLICATION IDENTIFYING IT BY SERIAL NUMBER AND FILING DATE OR INTERNATIONAL APPLICATION NUMBER AND INTERNATIONAL FILING DATE AND INDICATING THE RELATIONSHIP OF THE APPLICATIONS." 37 CFR 1.78(A). SEE ALSO THE NOTICE OF APRIL 28, 1987 (1079 O.G. 32 TO 46).

[X] The specification includes the following recitation:

Related Applications:

This application claims the benefit of co-pending application Serial No. 09/390,265 filed 3 September 1999 and entitled "Fluid Pressure Actuated Blood Pumping Systems and Methods with Continuous Inflow and Pulsatile Outflow Conditions". This application also claims the benefit of copending patent application Serial No. 09/390,268 filed 3 September 1999 and entitled "Programmable Fluid Pressure Actuated Blood Processing Systems and Methods".

NOTE: THE PROPER REFERENCE TO A PRIOR FILED PCT APPLICATION WHICH ENTERED THE U.S. NATIONAL PHASE IS THE U.S. SERIAL NUMBER AND THE FILING DATE OF THE PCT APPLICATION WHICH DESIGNATED THE U.S.

NOTE: (1) WHERE THE APPLICATION BEING TRANSMITTED ADDS SUBJECT MATTER TO THE INTERNATIONAL APPLICATION THEN THE FILING CAN BE AS A CONTINUATION-IN-PART OR (2) IT.IS DESIRED TO DO SO FOR OTHER REASONS, E.G. WHERE NO DECLARATION IS AVAILABLE, NO ENGLISH TRANSLATION IS AVAILABLE OR NO FEE IS TO BE PAID ON FILING THEN THE FILING CAN BE AS A CONTINUATION. IN THESE CASES THE INTERNATIONAL APPLICATION DESIGNATING THE U.S. IS TREATED AS THE PARENT CASE IN THE U.S. AND IS AN ALTERNATIVE TO THE COMPLETION OF THE INTERNATIONAL APPLICATION UNDER 35 U.S.C. 371(C)(4) WHICH MUST MEET THE REQUIREMENTS OF 37 CFR 1.61(A). THIS ALTERNATIVE PERMITS THE COMPLETION OF THE FILING REQUIREMENTS WITHIN ANY TERM SET BY THE PTO UNDER 37 CFR 1.53(D) TO WHICH THE EXTENSION PROVISIONS OF 37 CFR 1.136(A) APPLY. (WHEREAS, IF THE FILING IS AS AN INTERNATIONAL APPLICATION ENTERING THE U.S. STAGE THEN THE FEE, DECLARATION AND/OR ENGLISH TRANSLATION (WHERE NECESSARY) IS DUE WITHIN 20 MONTHS OF THE PRIORITY DATE BUT CAN BE PAID WITHIN 22 MONTHS OF THE PRIORITY DATE (OR IS DUE WITHIN 30 MONTHS OF THE PRIORITY DATE BUT CAN BE SUBMITTED WITHIN 32 MONTHS OF THE PRIORITY DATE) WITH THE SURCHARGES SET FORTH IN 37 CFR 1.492(E), (F) AND 37 CFR 1.495(C); HOWEVER, THE PROVISIONS OF 37 CFR 1.136 DO NOT APPLY TO THIS 22 OR (32 MONTH) PERIOD. 37 CFR 1.61(B).)

NOTE: THE DEADLINE FOR ENTERING THE NATIONAL PHASE IN THE U.S. FOR AN INTERNATIONAL APPLICATION WAS CLARIFIED IN THE NOTICE OF APRIL 28, 1987 (1079 O.G. 32 TO 46) AS FOLLOWS:

"The Patent and Trademark Office considers the International application to be pending until the 22nd month from the priority date if the United States has been designated and no Demand for International Preliminary Examination has been filed prior to the expiration of the 19th month from the priority date and until the 32nd month from the priority date if a Demand for International Preliminary Examination which elected the United States of America has been filed prior to the expiration of the 19th month from the priority date, provided that a copy of the international application has been communicated to the Patent

and Trademark Office within the 20 or 30 month period respectively—if a copy of the international application has not been communicated to the Patent and Trademark Office within the 20 or 30 month period respectively, the international application becomes abandoned as to the United States 20 or 30 months from the priority date respectively. These periods have been placed in the rules as paragraph (h) of S 1.494 and paragraph (i) of S 1.495. A continuing application under 35 U.S.C. 365(c) and 120 may be filed anytime during the pendency of the international application."

17. Relate Back-35 U.S.C. 119 Priority Claim for Prior Application

	The place	orior ified	U.S. a abov	appl e in	icatio item	on(s), includin 17, in turn its	g any prior elf claim(s	Internationa) foreign prid	al Application ority (ies) as	ı designatiı follows:	ng the U.S.,
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18.	Mair	ntena	ance	of C	ope	ndency of Pr	ior Applic	ation			
NOTE:	The F paper	The PTO finds it useful if a copy of the petition filed in the prior application extending the term for response is filed with the papers constituting the filing of the continuation application.									
	A.]	[]]	ion of time in A petition, for application u	ee and res	ponse exte			ending prior
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19.	Furt	her	Inver	itors	ship	Statement W	/here Ben	efit of Prior	Application	n(s) Claim	ed
NOTE:	If the continuation, continuation-in-part, or divisional application is filed by less than all the inventors named in the prior application a statement must accompany the application when filed requesting deletion of the names of the person or persons who are not inventors of the invention being claimed in the continuation, continuation-in-part, or divisional application. 37 CFR 1.62(a)										
NOTE:	In the case of a continuation-in-part application which adds and claims additional disclosure by amendment, an oath or declaration as required by § 1.63 must be filed. In those situations where a new oath or declaration is required due to additional subject matter being claimed, additional inventors may be named in the continuing application. In a continuation or divisional application which discloses and claims only subject matter disclosed in a prior application, no additional oath or declaration is required and the application must name as inventors the same or less than all the inventors in the prior application. 37 cfr 1.60(c). (Dealing with the continuation situation).										

	(a)	[]	This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor(s) in this application are [] the same. [] the following inventor(s) have been deleted:					
			[] the following inventor(s) have been added:					
	(b)	[]	This application discloses and claims additional disclosure and a new declaration or oath is being filed. With respect to the prior application the inventor(s) in this application are [] the same.					
			[] the following inventor(s) have been deleted:					
			[] the following inventor(s) have been added:					
	(c)	The in [x]	ventorship for all the claims in this application are the same. not the same, and an explanation, including the ownership of the various claims at the time the last claimed invention was made [] is submitted. [] will be submitted.					
20.	Aband	Please when when	It of Prior Application (if applicable) a abandon the prior application is pending or the perior application at a time while the prior application is pending or the petition for extension of time or to revive in that application is granted and this application is granted a filing date so as to make this application copending aid prior application.					
NOTE:	OF TIME APPLIC	IUATION- E OR A F ATION CO	THE NOTICE OF MAY 13, 1983 (103, TMOG 6-7) THE FILING OF A CONTINUATION OR IN-PART APPLICATION IS A PROPER RESPONSE WITH RESPECT TO A PETITION FOR EXTENSION PETITION TO REVIVE AND SHOULD INCLUDE THE EXPRESS ABANDONMENT OF THE PRIOR ONDITIONED UPON THE GRANTING OF THE PETITION AND THE GRANTING OF A FILING DATE TO G APPLICATION.					